



To: ham-digital@ucsd.edu

In <1994Apr19.143824.18972@midway.uchicago.edu> khopper@kimbark.uchicago.edu  
(Kenneth C Hopper) writes:

>timedia Mainstream". This two pager covers the Microsoft DSP API

Is microsoft going to try to have an API for everything? Next it will  
be MSDOS for DSP.

Or perhaps a ham receiver control API? Hummm, maybe not a bad idea!

73 Eric eac@world.std.com

-----  
Date: 23 Apr 94 23:13:48 GMT  
From: dog.ee.lbl.gov!agate!headwall.Stanford.EDU!rbatra@ucbvax.berkeley.edu  
Subject: AX.25 Library Available?  
To: ham-digital@ucsd.edu

Hi All,

Is there an AX.25 library available? I would like to send down my  
data through a library which would create an AX.25 packet and then either  
return this information to me so I can pipe it through the serial port or  
have it do that for me. I would like the source for the 68000 series  
or in C.

Thanks in advance,

Rajesh Batra  
rbatra@leland.stanford.edu

-----  
Date: Fri, 22 Apr 1994 00:45:32 GMT  
From: ihnp4.ucsd.edu!library.ucla.edu!psgrain!reuter.cse.ogi.edu!  
netnews.nwnet.net!raven.alaska.edu!aurora.alaska.edu!fsdpr@network.ucsd.edu  
Subject: Digital signal info sources?  
To: ham-digital@ucsd.edu

Hello. I'm looking for information on analog to digital conversion,  
vice-versa, and digital signal processing (methods and algorithms).  
If anyone knows of an FTP site or a good gopher source, that'd hit  
the spot.

Thanks de N10SN  
Dave Riesz  
fspdr@aurora.alaska.edu

-----  
Date: 22 Apr 1994 18:51:04 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!vixen.cso.uiuc.edu!  
newsrelay.iastate.edu!hobbes.physics.uiowa.edu!news.uiowa.edu!  
panda@network.ucsd.edu  
Subject: Doom  
To: ham-digital@ucsd.edu

You theoretically \*could\* play Doom over ham radio, but I believe it  
likes to have around 10K/second to run... 1K/sec bare minimum. Not gonna  
happen on packet 8-), especially if you are talking any significant distance.

-----  
Date: 22 Apr 94 12:09:37 GMT  
From: agate!howland.reston.ans.net!vixen.cso.uiuc.edu!sdd.hp.com!nigel.msen.com!  
zib-berlin.de!news.belwue.de!news.dfn.de!news.uni-augsburg.de!rzsun2.RZ.Uni-  
Augsburg.DE!hilbigva@ucbvax.berkeley.  
Subject: DOOM  
To: ham-digital@ucsd.edu

In article <205@envirolaw.win.net>, slc@envirolaw.win.net (Stephen L. Castner)  
writes:

|> Could you play DOOM over packet? It would be really cool if you  
|> could!

I don't know exactly, what DOOM is (say: I never played it), but I  
think you need a high speed packet interface then and a free QRG :)

PS: Just kidding like you.

-  
Sincerely yours, \ | | /nick Tino hilbig@uni-augsburg.de  
Mit freundlichen Gr"u"sen, \ | - | finger hilbigva@ftp.uni-augsburg.de  
Valentin Hilbig \ | | Packet Radio dg8mgv @ db0sao.deu.eu  
GCS 1.0.1: d? p- c+++ l++ u++ e+@ m+ s !n h+(\*) f- g+ w+++ t++ r- !y  
Nobody is perfect. I am too.

-----  
Date: Fri, 22 Apr 1994 19:48:56 GMT  
From: pacbell.com!tandem!Everest.Tandem.COM!parker@ames.arpa  
Subject: homemade PACKET  
To: ham-digital@ucsd.edu

I am wanting to build a packet system from scratch.  
I need information on the following:

packet modem ic's  
packet schematics  
packet protocol  
packet etc. software for PC

I am presently going to experiment with the AMD 7910 Modem ic.  
I would like to know about some newer modem chips, especially  
useful for packet radio.

I am also interested in getting setup for direct satellite communication.  
I need info. on that, and tracking software.

If anyone can help me, I would appreciate it.

thanks,

Parker

-----  
Date: Thu, 21 Apr 1994 18:13:07 GMT  
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!howland.reston.ans.net!EU.net!uknet!  
bcc.ac.uk!rs6-229.ucl-26.bcc.ac.uk!zcap134@network.ucsd.edu  
Subject: Internet <=> Packet mailbox needed??? Help?  
To: ham-digital@ucsd.edu

Thanx for taking the time to read this post... The problem I have is that I  
want to keep in touch with my local Ham society. I do not have packet  
equipment here in college but I do have internet access.

So... Is it possible that someone could forward my mail onto a mailbox, and  
vice-versa. Is there a server that can do that??? I know there isn't in the  
UK as internet connections are not allowed due to third party traffic laws.  
Would/Could it be possible for me to get on a US mailbox???

IE: GW0TJO @ WD????? etc??? I am a complete newbie to this  
packet<=>Internet gateway so if anyone canm answer my question It would be  
appreciated. Thanx again.

Redvers.Davies@ucl.ac.uk

GW0TJO

--

-----=====SMILE PEOPLE=====-----

This mail is sent to you by zcap134@ucl.ac.uk, all World Rights Reserved...  
No part of this mail may be re-transmitted (that means re-mailed dolt) or

-----  
Date: 22 Apr 1994 05:01:42 -0000  
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!sacsa3.mp.usbr.gov!  
ash.lab.r1.fws.gov!ash.lab.r1.fws.gov!not-for-mail@network.ucsd.edu  
Subject: Msys and mfj w/2.1.9 firmware  
To: ham-digital@ucsd.edu

We have an interesting problem that I wonder if anybody else has noticed or solved. First, we have a 1270B with a 2.1.9 firmware ROM and as a normal tnc, it works fine. We can connect to other stations, etc.

But when we load msys and execute it, the tnc won't connect. Msys puts the tnc in KISS mode and sometimes a monitoring station (JNOS) can decode the packets. Sometimes it can't...

If we swap out the ROM with a KISS EPROM, all works fine. Is there something wrong with the KISS firmware in the 2.1.9 code?

Thanks

--  
Stu Mitchell  
USFWS Forensic Lab  
stu@ash.lab.r1.fws.gov - or - mitchellstu@fws.gov  
# I speak for myself, not the US Government! #

-----  
Date: 22 Apr 94 12:25:50 GMT  
From: ghost.dsi.unimi.it!univ-lyon1.fr!swidir.switch.ch!scsing.switch.ch!  
news.dfn.de!news.uni-augsburg.de!rzsun2.RZ.Uni-Augsburg.DE!  
hilbigva@tcgould.tn.cornell.edu  
Subject: On-Air Encryption?..  
To: ham-digital@ucsd.edu

In article <dfajardoCoKM6z.687@netcom.com>, dfajardo@netcom.com (Douglas Fajardo) writes:

|> Richard Whittaker (rwhittak@docwhitehoorse.doc.ca) wrote:

[snip]

|> : I've been working with the DOC on a project to use digital radio in disaster  
|> : situations to connect with the Internet via RF links...

|> <text deleted>  
 |> :.... although they raised  
 |> : the question of security of the data stream between the remote site (the  
 |> : on-scene packet station), and the dish. This link would be made on  
 |> : pre-determined "commercial" frequencies, so the question arose as to what  
 |> : encryption schemes there were to bolster security of information passing  
 |> : over the air... Does any such scheme currently exist, and if so, where would  
 |> : one find it and how good is it?.. Any information would be of great  
 |> : assistance...  
 |> There is a serious question of what is being protected, and what level  
 |> of protection is desired. If you simply dont want the media or the casual  
 [snip]  
 |> use it. This would require the originator of the mesage encoding the  
 |> message before sending it.  
 |>  
 |> If your reasons for needing security go beyond this level, then I suspect  
 |> the answer is no, and it probably can't be done in a secure fashion

Definitively not. Check out KERBEROS, the Berkeley TCP/ip extension found in  
 BSD compatible Unix(tm) systems like BSDI etc.

However, KERBEROS is protected by american law and the supporting DES  
 hardware is under export restriction.

But DES is freely available here in Europe and in the rest of the  
 world, because algorithms can only be patented in US.

Running KERBEROS without DES hardware would be a bottleneck and slow  
 down the machine too much, because KERBEROS is designed to work in  
 Ethernet speed ... So KERBEROS is very interesting, but I don't know  
 any place where it is used.

|> without getting some kind of crypto gear. (Beware of the DES trap; DES  
 |> can't be implemented in software and still be in compliance with the  
 |> spec - software implementationsof DES are dis-allowed!).  
 |>  
 |> Because Amateur radio is not allowed to use encryption, no development  
 |> of hardware for this purpose has been done to the best of my knowledge.

There is no HAM implementation AFAIK. But there is no problem to  
 interconnect two Systems protected by KERBEROS over two Packet Gateways.  
 Richard wrote about "commercial" frequencies, so crypted signals should  
 be no legal problem.

--

Sincerely yours, \ | | /nick Tino hilbig@uni-augsburg.de  
 Mit freundlichen Gr"u"sen, \ | - | finger hilbigva@ftp.uni-augsburg.de  
 Valentin Hilbig \ | | Packet Radio dg8mgv @ db0sao.deu.eu  
 GCS 1.0.1: d? p- c+++ l++ u++ e+@ m+ s !n h+(\*) f- g+ w+++ t++ r- !y  
 Nobody is perfect. I am too.

-----  
Date: 21 Apr 94 18:16:17 GMT  
From: agate!howland.reston.ans.net!cs.utexas.edu!utnut!torn!uunet.ca!uunet.ca!  
lhaven.UUmh.Ab.Ca!Pj\_Butts@ucbvax.berkeley.edu  
Subject: On-Air Encryption?..  
To: ham-digital@ucsd.edu

In a message dated Sat 16 Apr 94 22:54, Rwhittak@docwhitehoorse.doc.ca (ric wrote:

R> Newsgroups: rec.radio.amateur.digital.misc  
R> Path: dres.dnd.ca!netfs.dnd.ca!dgbt!clark.dgim.doc.ca!news  
R> From: rwhittak@docwhitehoorse.doc.ca (Richard Whittaker)  
R> Subject: On-Air Encryption?..  
R> Message-ID: <1994Apr16.173958.2447@clark.dgim.doc.ca>  
R> Sender: news@clark.dgim.doc.ca (#Usenet News)  
R> Organization: Square Hole BBS/UX - Whitehorse Yukon Territory  
R> X-Newsreader: TIN [version 1.2 PL2]  
R> Date: Sat, 16 Apr 94 17:39:58 GMT  
R> Lines: 24

R> Greetings from Whitehorse!..

R> I've been working with the DOC on a project to use digital radio in  
R> disaster  
R> situations to connect with the Internet via RF links to router  
R> stations with  
R> satellite dishes scattered around the territory. We've demonstrated  
R> the  
R> effectiveness of this system to "the powers that be", although they  
R> raised  
R> the question of security of the data stream between the remote site  
R> (the  
R> on-scene packet station), and the dish. This link would be made on  
R> pre-determined "commercial" frequencies, so the question arose as to  
R> what  
R> encryption schemes there were to bolster security of information  
R> passing  
R> over the air... Does any such scheme currently exist, and if so, where  
R> would  
R> one find it and how good is it?.. Any information would be of great  
R> assistance...

R> Thanks in advance..

R> Cheers,  
R> Rich W.

R> --

R> Richard Whittaker: Snailmail: 1102 Pine St, Whitehorse YT Y1A 4E8

R> Internet E-Mail: rwhittak@orion.docwhitehorse.doc.ca

R> Geographic Coords: 60 Deg., 45', 53" N., 135 Deg., 7', 17" W.

R> Amateur Radio: VY1RW, VY1RW@VY1DX, VY1RW@VY1BBS, 145.010 MHz

R>

TRY USING A DATARADIO UNIT.IT HAS AN INTERNAL RF SCRAMBLER.YOU CAN ALSO USE  
ONE OF THE AFTER-MARKET SCRAMBLER OVERLAY SOFTWARE PACKAGES.

I USE THEM IN COMMERCIAL APPLICATIONS NOW AND HAVE HAD NO PROBLEMS.

-- Via DLG Pro v1.0

Preferred: Pj\_Butts@LHaven.UUmh.AB.CA

Alternate: Pj.Butts@f3002.n134.z1.fidonet.org

-----  
Date: 24 Apr 94 10:06:39 GMT

From: dog.ee.lbl.gov!agate!howland.reston.ans.net!cs.utexas.edu!not-for-  
mail@ucbvax.berkeley.edu

Subject: Packet<==>Internet

To: ham-digital@ucsd.edu

Hi there, thanks for taking the time to read this.

I am a student in London who wants to send packets (as in mail) to my friends  
at home. Does anyone know anybody who can forward my mail on and off the  
packet net. IE: I packet BBS which I can use through internet. If anyone can  
help it would be most appreciated. The BBS can be anywhere in the world,  
EMail address'? Telnet address'???

Any help will be much appreciated.

GW0TJ0 a.k.a. redvers.davies@ucl.ac.uk

P.S. I will mail copies of my licence to anyone who needs it to prove I am  
licienced.. Thanks again.

--

-----=====SMILE PEOPLE=====-----

This mail is sent to you by zcapl34@ucl.ac.uk, all World Rights Reserved...  
No part of this mail may be re-transmitted (that means re-mailed do!t) or

-----  
Date: 22 Apr 94 06:34:26 GMT

From: ihnp4.ucsd.edu!usc!nic-nac.CSU.net!charnel.net.csuchico.edu!charnel!



yeshua.marcam.com!zip.eecs.umich.edu!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!  
unixg.ubc.ca!unixg.ubc.ca!bnowak@network.  
Subject: Wefax software, or wefax specs  
To: ham-digital@ucsd.edu

I have a Kantronics KPC-3 tnc and would like to recieve wefax.  
Is there any software on the net that can help me ?.  
I would also like some info on wefax format so that i could write  
some software to display it wefax .

--  
73  
de VE7QBN

Brad Nowak

-----  
Date: 22 Apr 94 12:05:12 GMT  
From: agate!howland.reston.ans.net!pipex!zaphod.crihan.fr!jussieu.fr!univ-  
lyon1.fr!swidir.switch.ch!scsing.switch.ch!news.dfn.de!news.uni-augsburg.de!  
rzsun2.RZ.Uni-Augsburg.DE!hilbigva@ucbvax.  
To: ham-digital@ucsd.edu

References <2ojll8\$43l@spitfire.navy.mil>,  
<MIKEC.94Apr18110521@cantor.praxis.co.uk>, <1994Apr19.110727.1@ugun2a>ir.sw  
Subject : Re: WA8DED ( help)

In article <1994Apr19.110727.1@ugun2a>, pfund@uni2a.unige.ch writes:  
|> In article <MIKEC.94Apr18110521@cantor.praxis.co.uk>, mikec@praxis.co.uk (Mike  
Chace) writes:  
|> > Get NORD><LINK's The Firmware. It's a clone of WA8DED, has many  
|> > improvements for AX.25 work, includes code for DAMA and has the  
|> > most stable KISS mode I've found in any TNC firmware.  
[snip]  
|> Where can you get this from ???  
|>  
|> By the way, is there a Hostmode eprom which can also do KISS ?

According what I wrote to richard\_smith@nrl7350.nrlssc.navy.mil (richard smith)

-----8<-----  
richard smith writes:  
> Hi There.. Tnx for the information. I tried ucsd.edu and found the

OK, I tried 'archie'. After looking around a quarter or so, I found following:

Host ftp.funet.fi (128.214.248.6)  
Last updated 04:32 8 Apr 1994

Location: /pub/ham/packet/eproms

FILE	-rw-rw-r--	15742 bytes	03:00	28 Nov 1992	tf23pk88.zip
------	------------	-------------	-------	-------------	--------------

Location: /pub/ham/packet/misc

FILE	-rw-r--r--	20874 bytes	03:00	19 Oct 1991	tf23.lzh
FILE	-rw-r--r--	128680 bytes	09:51	4 Oct 1993	tf23src.zip
FILE	-rw-r--r--	30998 bytes	09:50	4 Oct 1993	tf24a.zip
FILE	-rw-r--r--	30956 bytes	09:50	4 Oct 1993	tf24c27.zip
FILE	-rw-r--r--	16256 bytes	13:07	27 Dec 1993	tf26_10.lzh

I ftp'ed tf24c27.zip, and it looks like this contains documentation along with eprom code. However, it is packed by pkzip 2.0 so that my (public) unzip decode under unix cannot unpack it.

tf23src.zip looks like a source code - but I don't think that the compiler and assembler are part of this archive.

[snip]

If you cannot fetch tf2\*.zip from ftp.funet.fi or wherever, give me a note and I mail it to you. Just do the same if it happens, that this isn't the right eprom (but I don't think that any TNC1's are supported in 1993) and you need the eproms I use at home.

-----8<-----

If it dosen't help you, I can fetch my configuration at home and make it available via public ftp. But I only do it by request.

Note that I have the complete source code of  
Nord><Link TheFirmware and Nord><Link TheNet, too.

However, TheNet is not up to date and does not contain DAMA.  
TheFirmware contains DAMA and those tree modes:  
WA8DED, HostMode and KISS/SMACK. SMACK is the KISS mode with  
Checksum-Extension mainly used for WAMPES nowadays.

I also run TOP (The Other Packet), which is written in Turbo Pascal and contains many features like:

- Macros
- RUN-Directory
- AutoBin
- AutoBoxBin (for DieBox)
- TFPCR/TFPCX support

On request I can put it in public FTP, too.

But please request by e-mail what you want!

I don't want to fill the FTP server with unnecessary data.

--

Sincerely yours, \ | | /nick Tino hilbig@uni-augsburg.de  
Mit freundlichen Gr"u"sen, \ |-| finger hilbigva@ftp.uni-augsburg.de  
Valentin Hilbig \ | | Packet Radio dg8mgv @ db0sao.deu.eu  
GCS 1.0.1: d? p- c+++ l++ u++ e+@ m+ s !n h+(\*) f- g+ w+++ t++ r- !y  
Nobody is perfect. I am too.

-----

End of Ham-Digital Digest V94 #127

\*\*\*\*\*